

Results of contactless and non-invasive analysis: overview

Project: Digitization / Cataloguing of non-textual objects:
Description and Digitization of Precious Book Covers as Independent Works of Art.
Project-Period: 01.10.2014 - 30.09.2017

Shelfmark: Munich, Bayerische Staatsbibliothek, Cod.nepal. 78

| | | |
|--------------------------------|---|----------|
| Analytical methods: | X-Ray Fluorescence Spectroscopy (XRF): | P. 2-10 |
| | Fourier Transform Infrared Spectroscopy (FTIR): | P. 11-17 |

Contact: Institute of Conservation and Restoration (IBR)
of the Bayerische Staatsbibliothek, Munich

XRF-Analysis: Mapping of measurement points and spectra

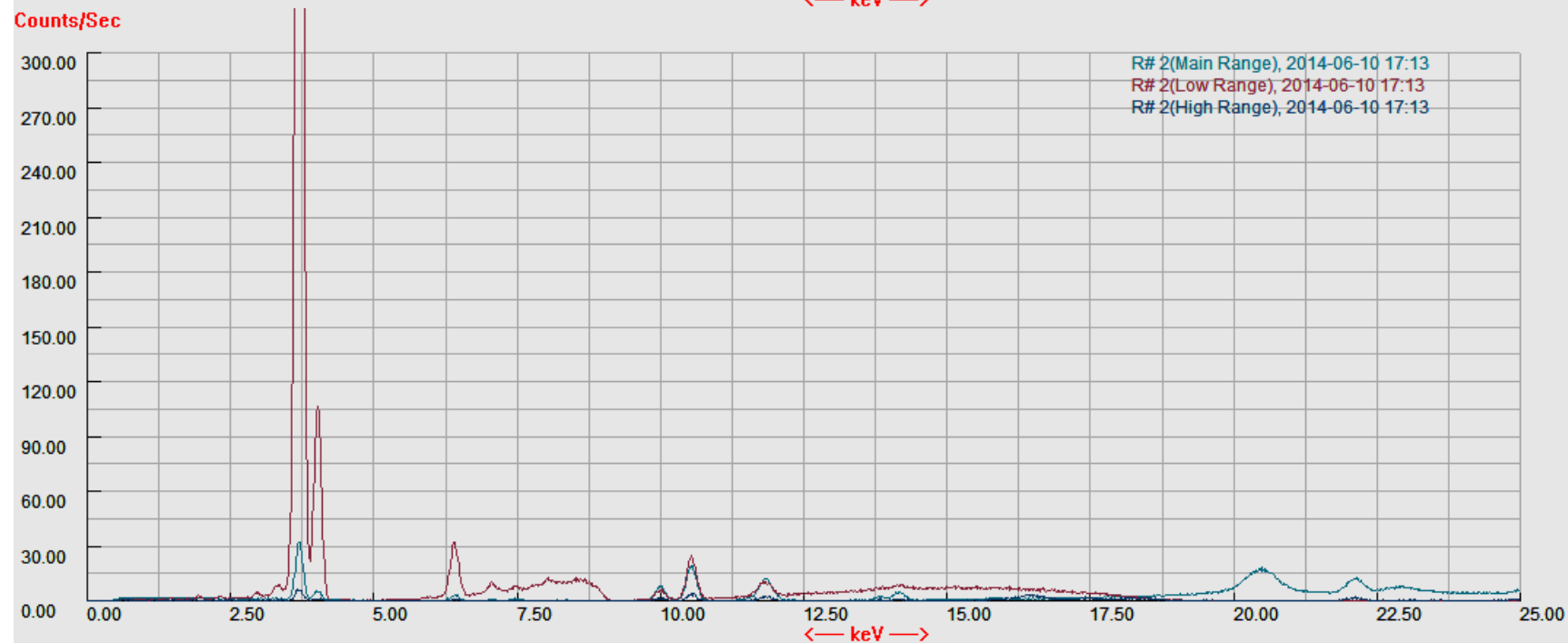
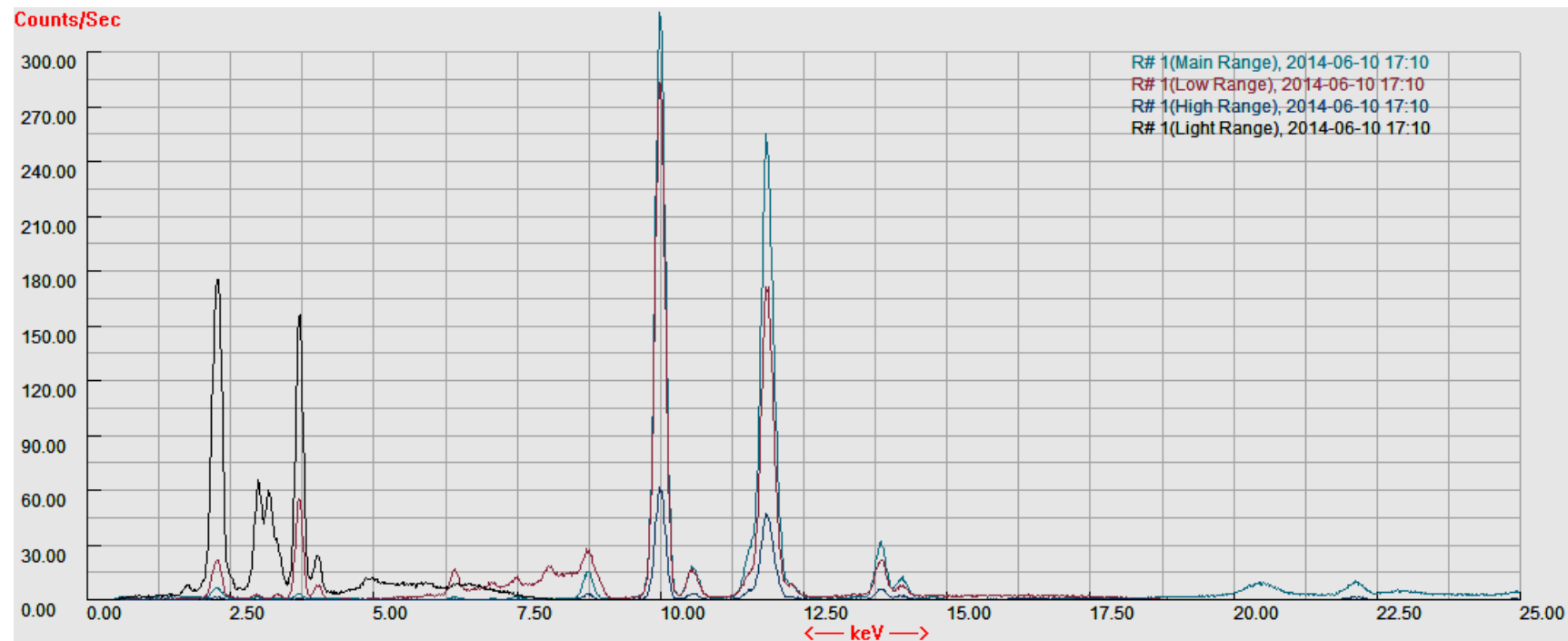
Scanning parameters

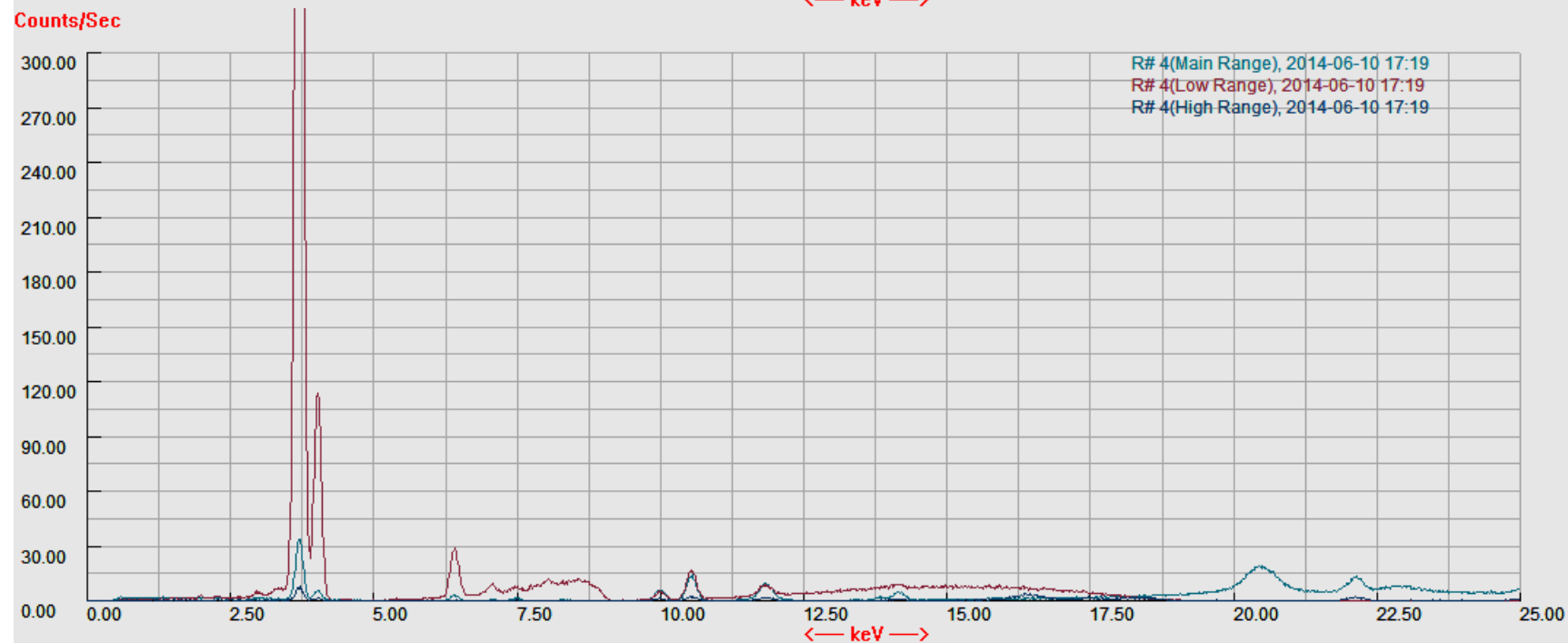
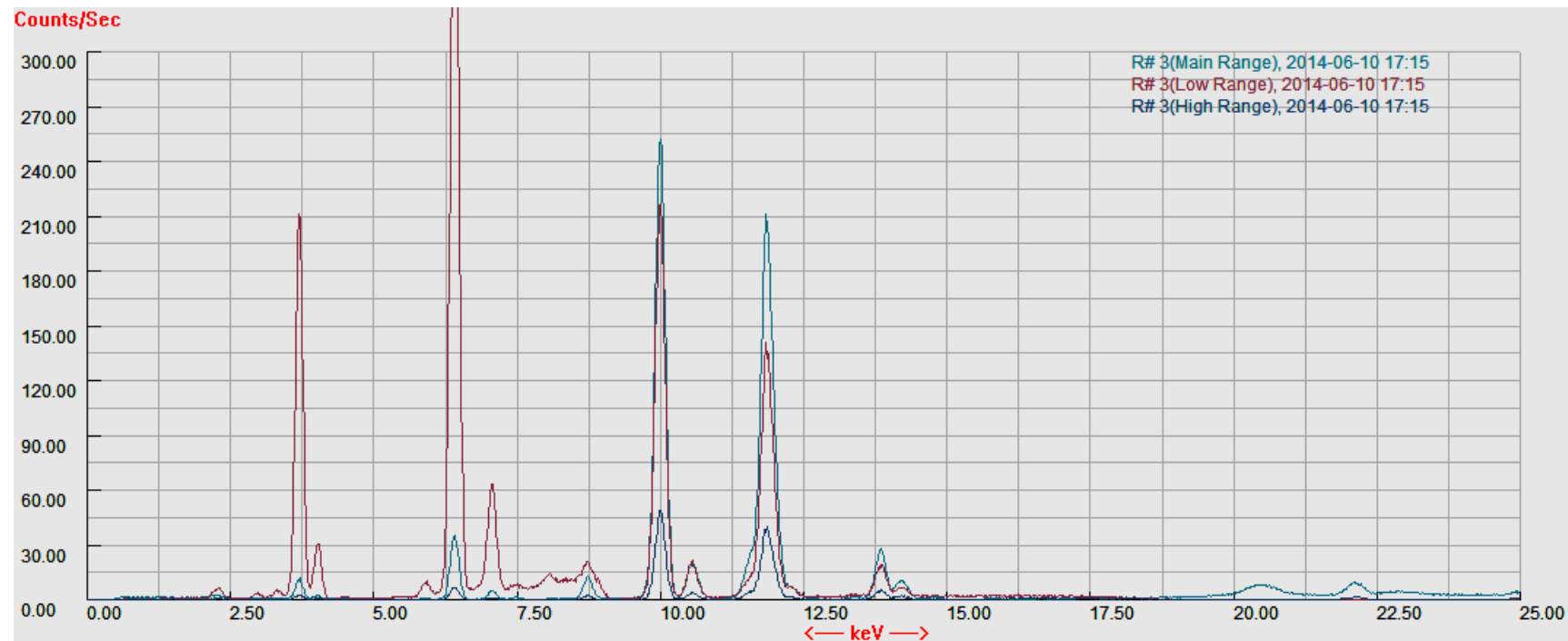
Instrument: NITON XL3t GOLD D+
Scanning mode: Mining (Cu, Zn)
Spectral resolution: 4 cm^{-1}
Scan duration: 150 s

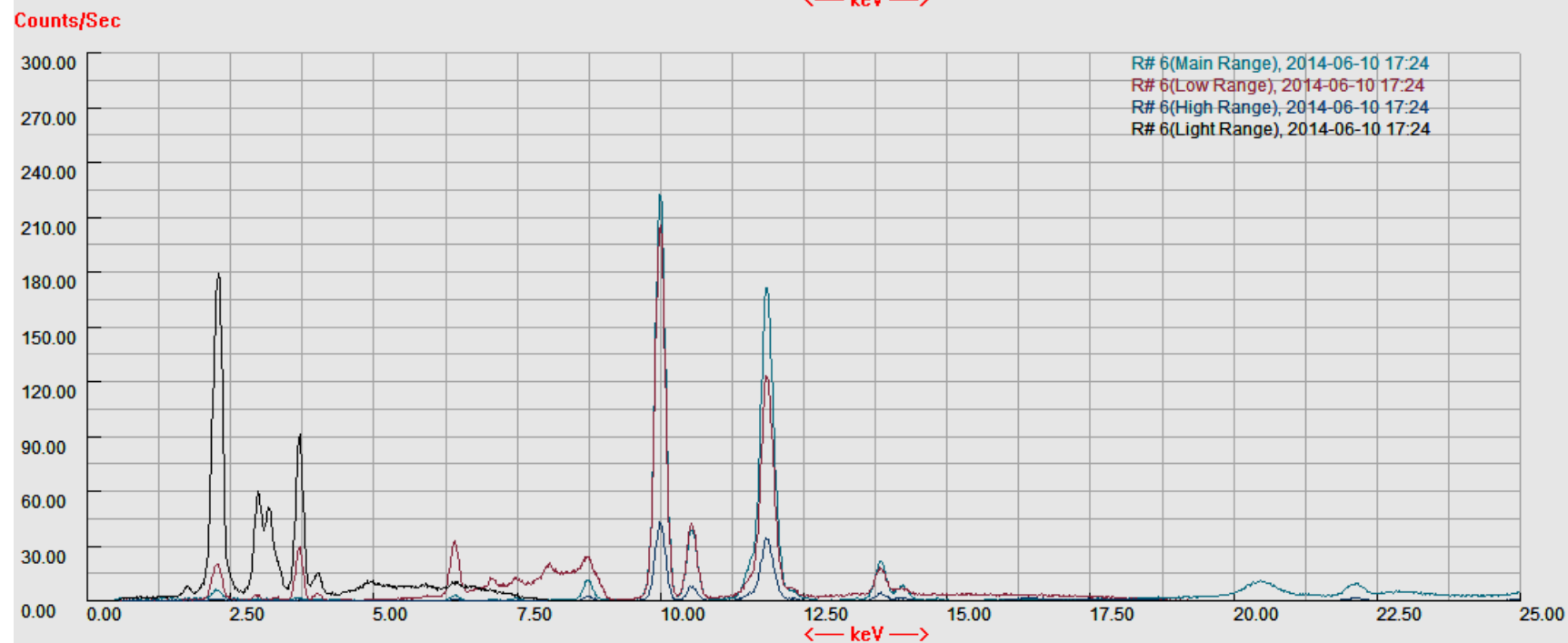
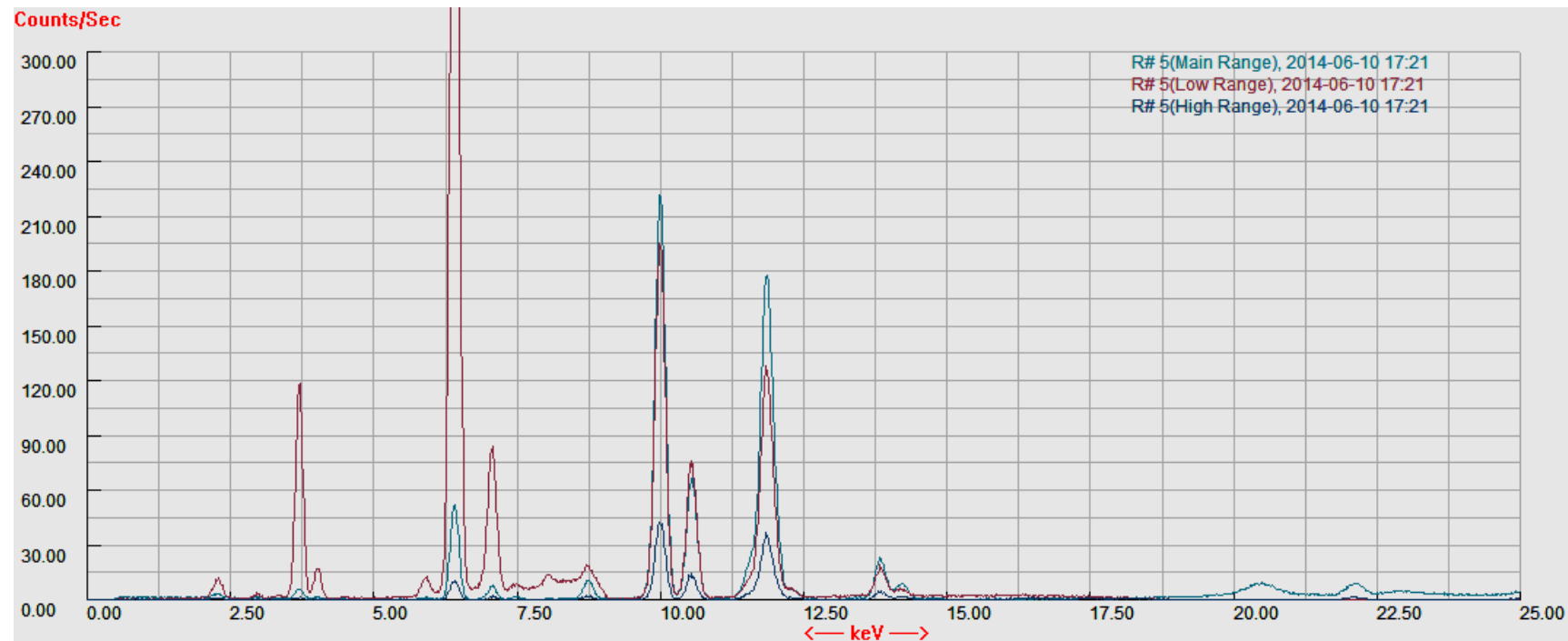
Spectra:

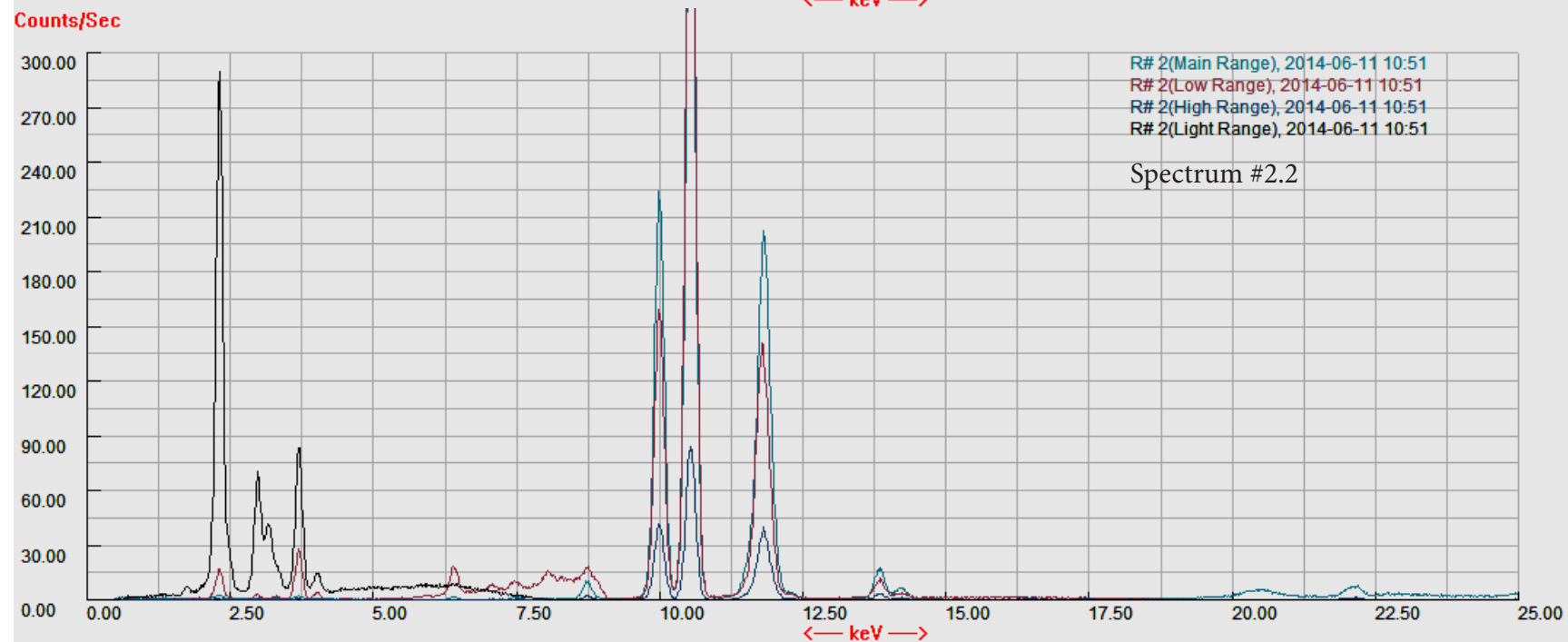
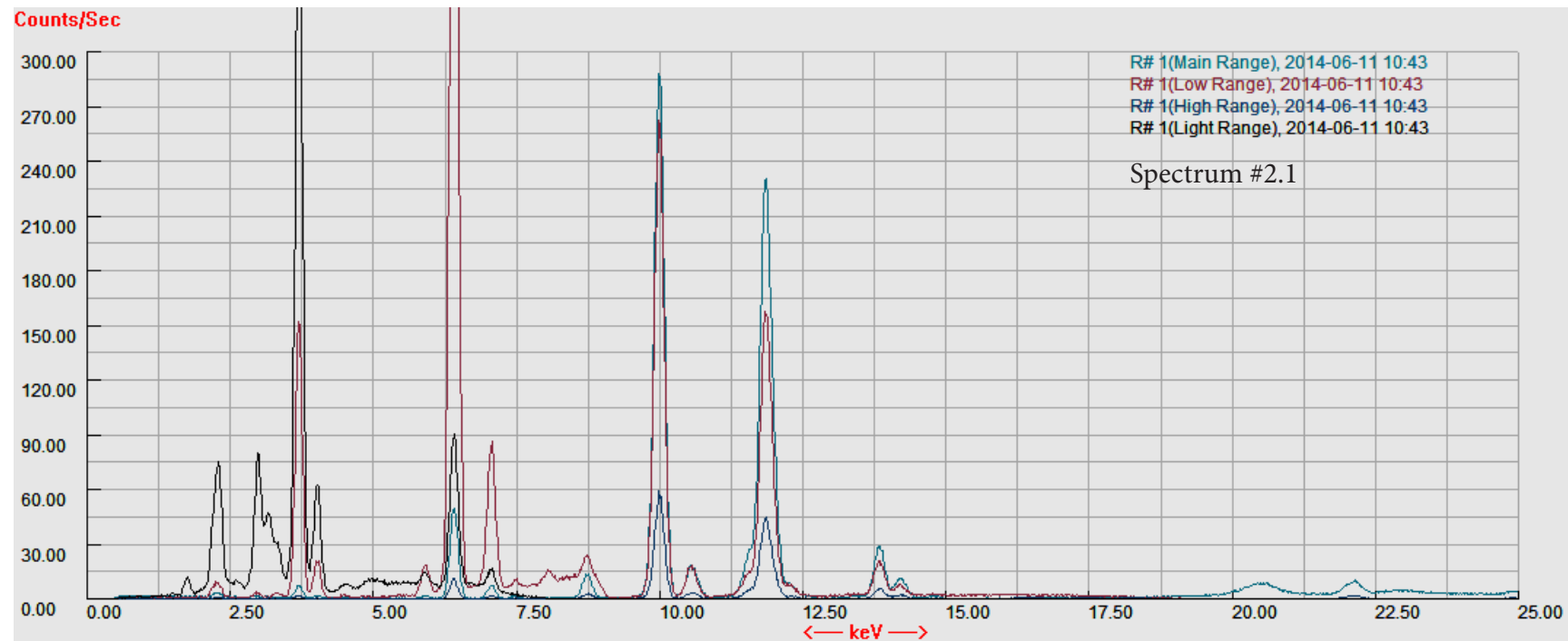
#1 ... #6
#2.1 ... #2.7
#3.2, #3.4, #3.5



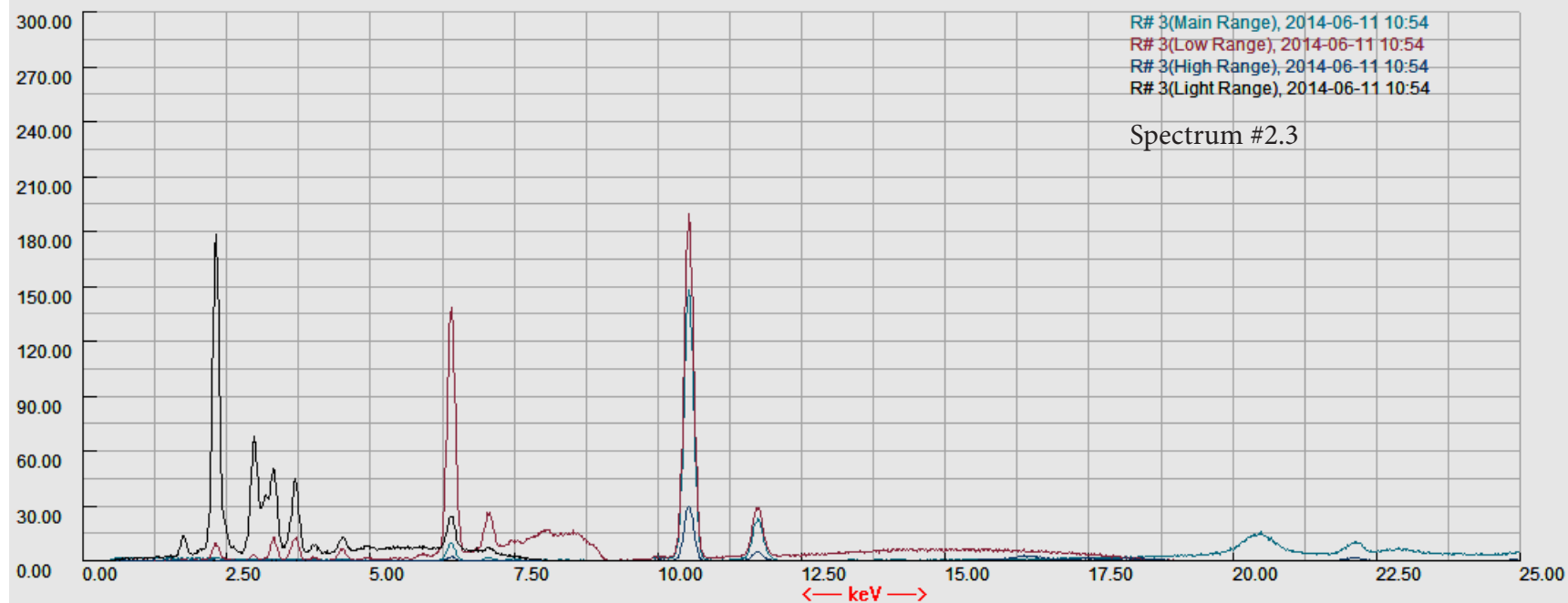




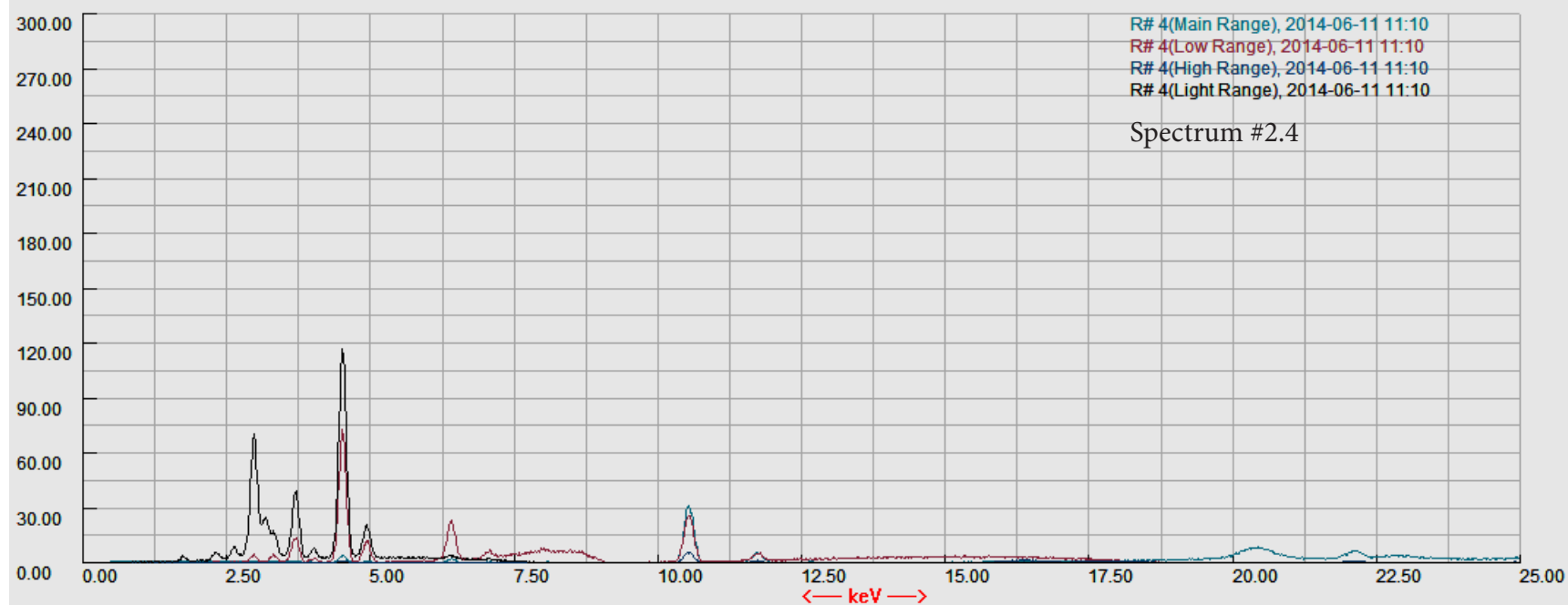




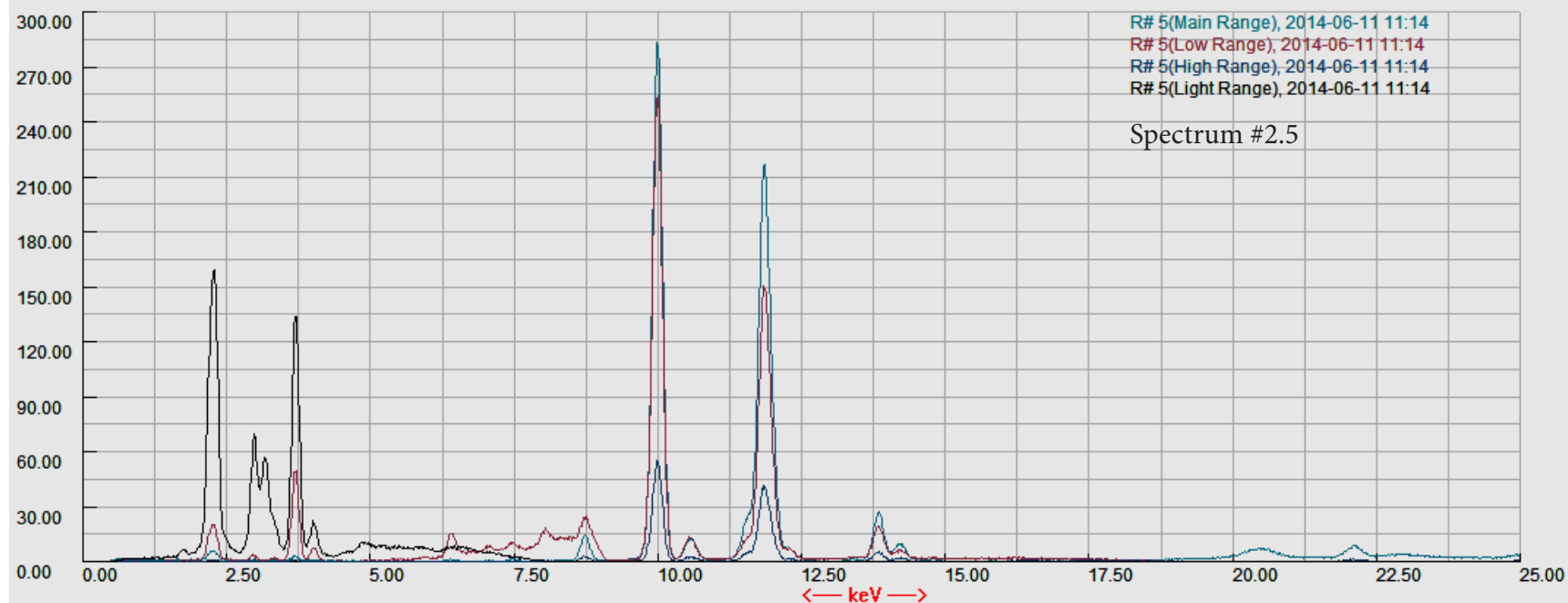
Counts/Sec



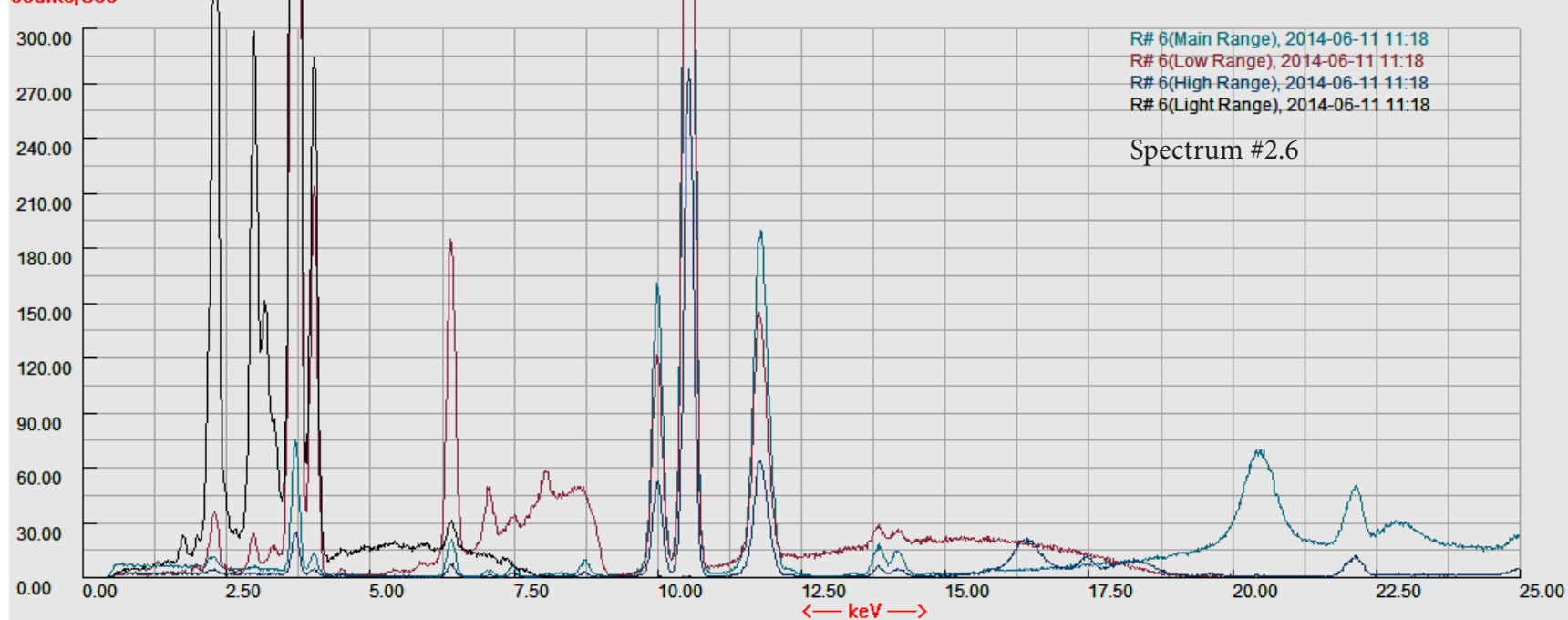
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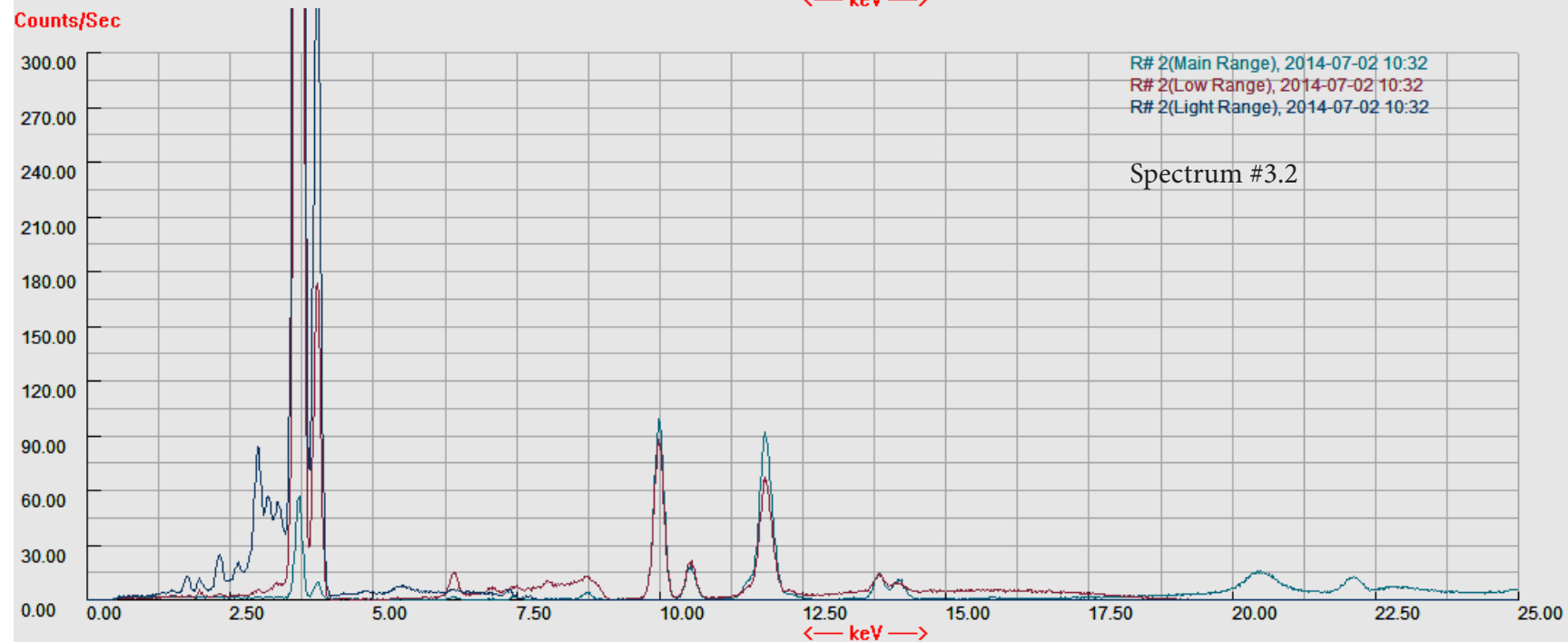
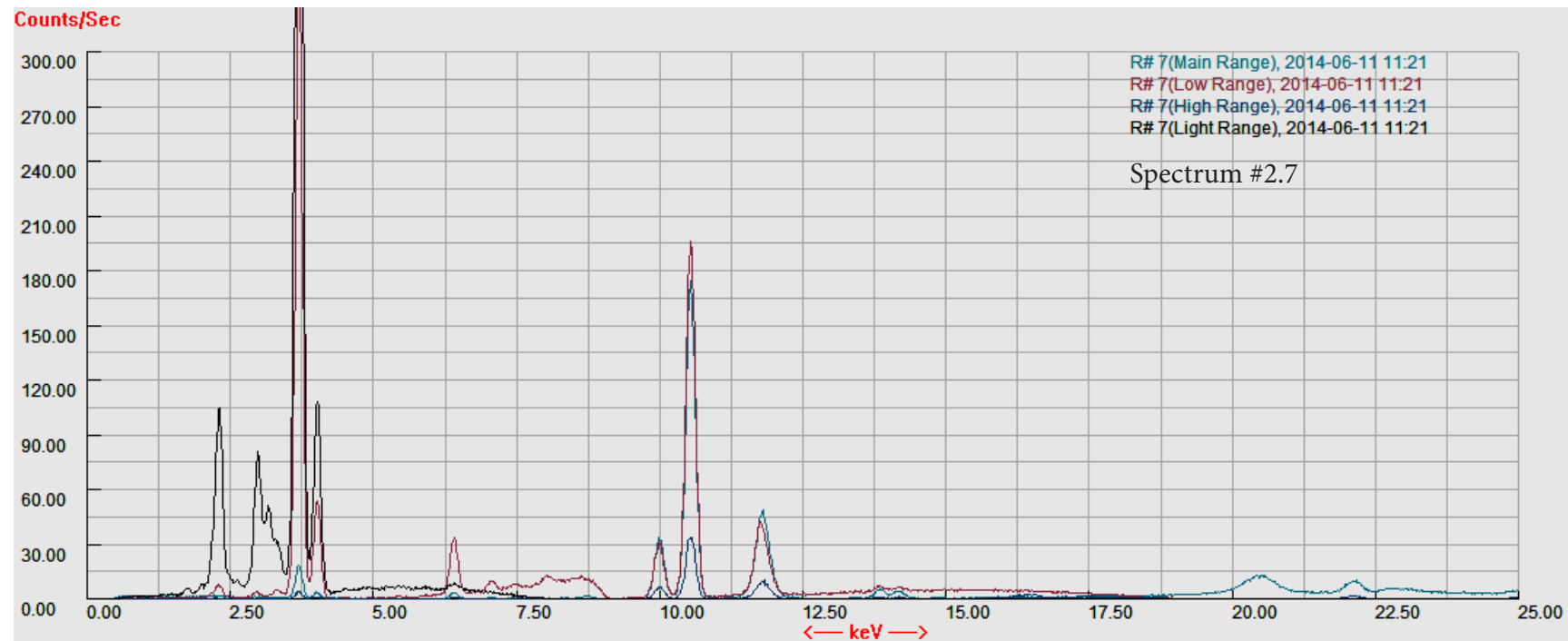


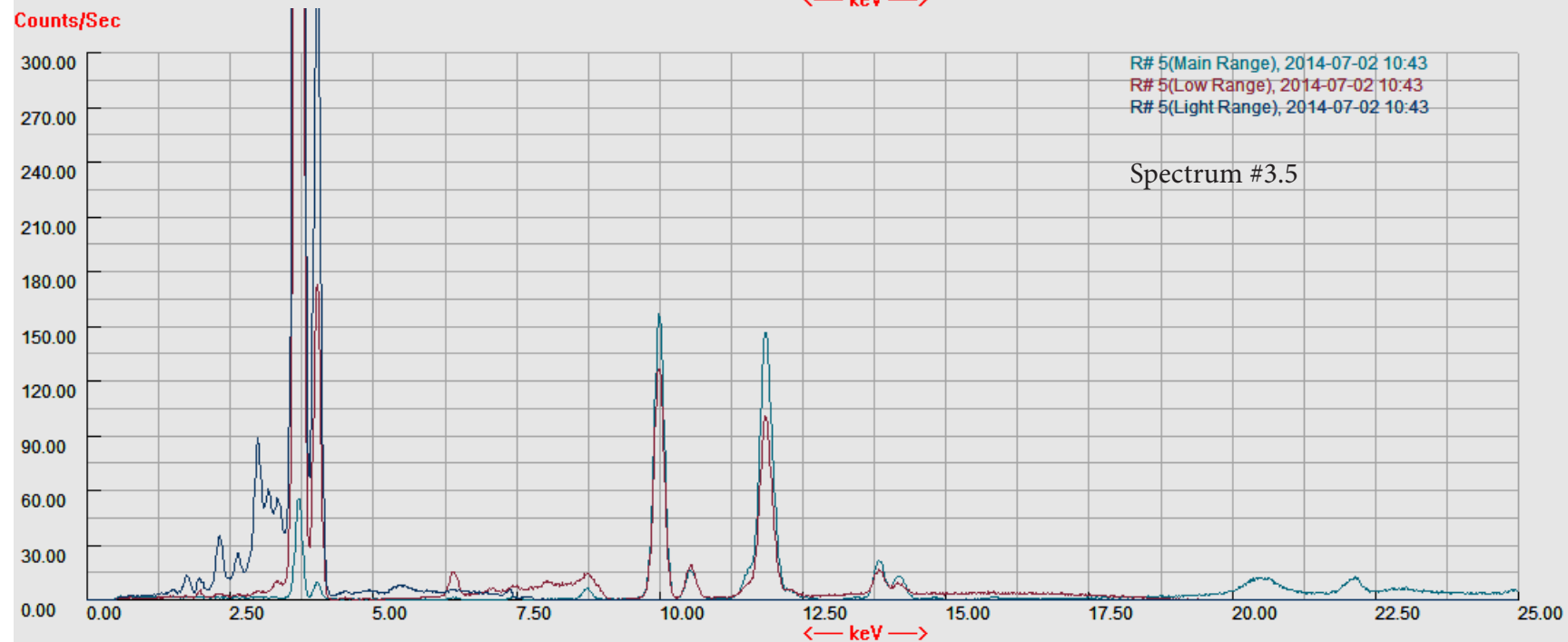
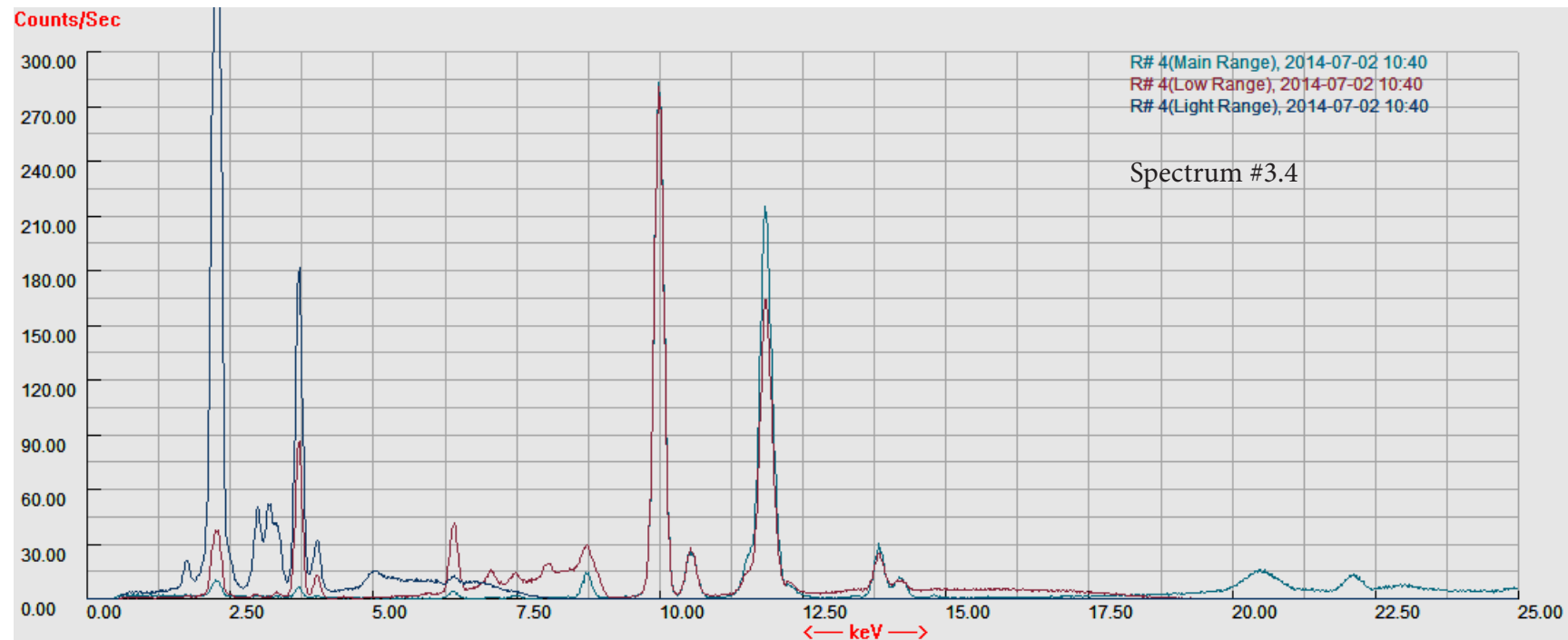
Counts/Sec



Counts/Sec







FTIR-Analysis: Mapping of measurement points and spectra

Scanning parameters

Instrument: BRUKER ALPHA
Scanning mode: FTIR external reflection mode
Spectral resolution: 4 cm^{-1}
Spectral range: $360\text{-}5400\text{ cm}^{-1}$
Scan duration: 240 scans

Spectra: nepal_78_1a_1a ... _1k
(filename description: signature_bookcover 1/2, side a/b_number of scan)



